

<b>GROUP</b>	<b>4 9</b>	<b>HERBICIDE</b>
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## TAKKLE™ Herbicide

HERBICIDE

Solution

AGRICULTURAL

Water Soluble Herbicide for Nonselective Weed Control for use in Summerfallow and Pre-seed Application.

**GUARANTEE:**

Glyphosate ..... 140 g/L  
(present as isopropylamine salt)

Dicamba ..... 70 g/L  
(present as isopropylamine salt)

**READ THE LABEL AND BOOKLET BEFORE USING  
KEEP OUT OF REACH OF CHILDREN**

**WARNING: EYE IRRITANT**

SEVERE INJURY OR DESTRUCTION MAY RESULT WITH CONTACT OF CROP FOLIAGE  
OR OTHER DESIRABLE VEGETATION

REGISTRATION NO. **29552**  
PEST CONTROL PRODUCTS ACT

Net Contents: **1 L – 1050 L**

**Syngenta Canada, Inc.**  
140 Research Lane, Research Park  
Guelph, ON N1G 4Z3  
Telephone: 1-877-964-3682

LABEL

## NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

## FIRST AID

**IF POISONING IS SUSPECTED, IMMEDIATELY** contact a physician or a poison control centre. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**If swallowed**, call a poison control centre or doctor **IMMEDIATELY** for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

**If on skin or clothing**, take off contaminated clothing. Rinse skin **IMMEDIATELY** with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

**If inhaled**, move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

**If in eyes**, hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

## TOXICOLOGICAL INFORMATION

May irritate eyes. Avoid contact with eyes. May cause irritation to the skin and mucous membranes. Symptoms of overexposure to dicamba may include dizziness, muscle weakness, loss of appetite, weight loss, vomiting, decreased heart rate, shortness of breath, excitement, tenseness, depression, incontinence, cyanosis, muscle spasms, exhaustion and loss of voice. Treat symptomatically.

## PRECAUTIONS

**KEEP OUT OF REACH OF CHILDREN.** Avoid inhaling dust, sprays, etc. Causes eye irritation. **DO NOT** get in eyes. Do not get on skin or clothing. Wear a long-sleeved shirt, long pants, goggles or a face shield and chemical-resistant gloves during mixing, loading, clean-up or repair activities. Applicators must wear a long-sleeved shirt, long pants and chemical resistant gloves. **DO NOT** enter treated fields until 12 hours after application. Wash thoroughly with soap and water after handling.

## **ENVIRONMENTAL HAZARDS**

TOXIC to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE. To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body. The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.

## **GRAZING AND HARVEST RESTRICTIONS**

DO NOT permit lactating dairy animals to graze fields within 7 days after application. DO NOT harvest forage or cut hay within 30 days after application. Withdraw meat animals from treated fields at least 3 days before slaughter.

## **PHYSICAL AND CHEMICAL HAZARDS**

Spray solutions of TAKKLE Herbicide should be mixed, stored and applied only in stainless steel, aluminium, fibreglass, plastic and plastic-lined steel containers.

**DO NOT MIX, STORE OR APPLY TAKKLE OR SPRAY SOLUTIONS OF TAKKLE HERBICIDE IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS.** TAKKLE Herbicide or spray solutions of TAKKLE Herbicide react with such containers and tanks to produce hydrogen gas, which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

## **STORAGE**

Store product in original container only, away from other pesticides, fertilizer, food or feed. Not for use or storage in or around the home. Store above 5 °C to keep product in solution. If crystals form, place in a warm room (20°C), allow the product to reach room temperature and roll or shake periodically until crystals have redissolved. Keep container closed to prevent spills and contamination.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at [www.croplife.ca](http://www.croplife.ca).

## **FOR DISPOSAL OF UNUSED, UNWANTED PRODUCT**

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

## **CONTAINER DISPOSAL:**

### **For recyclable containers:**

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

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### **For refillable containers:**

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING,  
CALL 1-800-327-8633 (FASTMED)***

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## **GENERAL INFORMATION**

**TAKKLE** Herbicide is a postemergent herbicide for control or suppression of emerged weeds prior to seeding cereals in reduced tillage operations and in fallow land. This product moves through the plant through the foliage and then moves throughout the plant. Visual effects of control are gradual wilting or yellowing of the plant, which advances to complete browning of above-ground growth and deterioration of affected underground plant parts. Visible symptoms will usually develop on labelled weeds within 5 to 7 days after applications, but may not occur for more than 7 days. Extremely cool or cloudy weather following treatment or prolonged drought conditions may slow activity of this product and delay the visual effects of control. Always use the higher rate of this product per hectare when weeds are under poor growing conditions, such as drought.

Reduced control may result if treatments are made during poor growing conditions such as drought stress, disease or insect damage, or if weeds have been mowed, grazed or cut. Heavy dust on foliage or an overstory canopy covering targeted weeds may also reduce control. This product does not provide residual weed control. For subsequent residual weed control, apply a registered residual herbicide. Read and carefully observe cautionary statements and all other information appearing on the labels of all herbicides used.

Rainfall occurring within 6 hours after application, particularly on weeds growing under stress conditions, may reduce the effectiveness of this product. Heavy rainfall within 2 hours after application may wash the chemical off the foliage and a repeat treatment may be required. For best results spray coverage should be uniform and complete.

## **DIRECTIONS FOR USE**



As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests. **DO NOT** contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

Field sprayer application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium/coarse classification. Boom height must be 60 cm or less above the crop or ground.

**DO NOT** apply by air.

#### **Buffer zones:**

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer and spot treatment.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

#### **Buffer Zones for using ASAE Medium or Coarse Classification Droplets**

Method of application	Crop	Buffer zones (metres) required for the protection of:				Terrestrial habitats:
		Freshwater habitat of depths:		Estuarine/marine habitats of depths:		
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer*	Stubble fields, fallow land	15	15	15	15	15

\*For field sprayer application, buffer zones can be reduced with the use of drift reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy, the labelled buffer zone can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy, the labelled buffer zone can be reduced by 30%.

For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

Recommended applications of this product can be made as required prior to seeding in cereal crops and to fallow land. This product or labelled tank mixtures should be applied to emerged, actively growing weeds. Application at earlier growth stages generally will provide best results. Reduced results may occur if applications of this product or labelled tank mixtures are made to weeds which are not actively growing or weeds that are drought stressed. For additional information and precautions refer to the "GENERAL INFORMATION", "MIXING INSTRUCTIONS" and "APPLICATION PRECAUTIONS" sections of this label pamphlet.

Apply this product at 2.5 to 3.125 L/ha in 50 to 100 litres of clean water per hectare. The higher rate of this product should be applied when weeds are under poor growing conditions such as

drought or for those weeds specified in the table below. When applied as recommended, this product will control weeds as outlined in the following “WEEDS CONTROLLED” table.

### WEEDS CONTROLLED

	RATE (L/HA)	APPLICATION TIMING
<b>ANNUAL GRASSES</b>		
Brome, downy <sup>1</sup>	2.5	Between emergence and heading
Cereals, volunteer	2.5	Between emergence and heading
Darnel, Persian	2.5	Between emergence and heading
Foxtail, green	2.5	Between emergence and heading
Oats, wild	2.5	Between emergence and heading
<b>ANNUAL BROADLEAVES</b>		
Buckwheat, wild	2.5	1 – 4 leaf
Canola, volunteer <sup>2</sup> (does not control glyphosate-tolerant varieties)	2.5	Up to 15 cm
Cowcockle	2.5	Up to 15 cm
Flixweed <sup>1</sup>	2.5	Up to 15 cm
Kochia	2.5	Up to 15 cm
Lady's-thumb	2.5	Up to 15 cm
Lamb's-quarters	2.5	Up to 15 cm
Mustard, wild	2.5	Up to 15 cm
Pigweed, redroot	2.5	Up to 15 cm
Smartweed	2.5	Up to 15 cm
Stinkweed	2.5	Up to 15 cm
Thistle, Russian	2.5	Up to 15 cm
<b>PERENNIAL</b>		
Barley, Foxtail <sup>3</sup>	3.125	Before initiation of seed head or browning of lower leaves

<sup>1</sup> See 'SPECIAL WEED CONTROL CONCERNS' section.

<sup>2</sup> For control of glyphosate-tolerant varieties, a tank mix with 2,4-D is required. Refer to Weeds Controlled in Tank-mix with 2,4-D section.

<sup>3</sup> Suppression.

### SPECIAL WEED CONTROL CONCERNS:

#### ANNUAL WEED CONTROL PRIOR TO SEEDING

**TAKKLE** herbicide may be applied to emerged annual weeds (see 'Weeds Controlled' table) in reduced tillage systems prior to seeding for cereal crops such as wheat, barley, rye, oats and field corn only (do not apply to sweet corn prior to seeding). Planting should follow soon after application since this product does not provide residual weed control. Applications too far in advance of seeding will allow weeds to emerge between application and crop emergence.

**NOTE:** Certain broadleaved crops such as lentils, peas, canola and flax can be injured by a pre-seeding application with this product and so should not be planted to a field receiving this type of treatment.

Use only the 2.5 L/ha rate for pre-seeding application. Do not apply after crop emergence. For field corn, apply to medium to fine textured soils containing more than 2.5% organic matter. Do not use on sandy or sandy loam soils.

### **WINTER ANNUAL WEEDS**

For best control of winter annual broadleaf weeds, such as flixweed and stinkweed, 2,4-D should be applied to emerged, actively growing weeds in the fall previous to the fallow season or in early spring in the fallow season when winter annual weeds are less than 10 cm tall. Refer to the 2,4-D product label for appropriate rates and other use instructions and precautionary statements.

### **DOWNY BROME**

For best control of this winter annual weed, **TAKKLE** herbicide can be applied after emergence in the fall previous to the fallow season or in spring of the fallow season up to seed head emergence.

### **CONTROL OF WEEDS UNDER STRESS CONDITIONS**

Under certain stress conditions, such as drought, cool temperatures or where extremely hard water (> 700 ppm Ca + Mg) has been used, weed control may be reduced with this product. However, the following list of application instructions will help improve results under these conditions. Use 50 L/ha water volume AND Use the higher rate of **TAKKLE** herbicide within the recommended rate range (3.125 L/ha)

### **WEEDS CONTROLLED IN TANK-MIX WITH 2,4-D**

For control of volunteer glyphosate-tolerant canola and wider spectrum broadleaf weed control in summerfallow or prior to seeding/after seeding prior to crop emergence in wheat, winter wheat, barley, and rye, **TAKKLE** Herbicide may be tank mixed with 2,4-D low volatile ester or amine formulations.

Refer to the 2,4-D herbicide label for further safety precautions and handling instructions.

ANNUAL WEED CONTROL TANK MIXTURES FOR SUMMERFALLOW AND MINIMUM TILLAGE SYSTEMS				
TANK MIX	RATE L/ha	WEEDS CONTROLLED	WATER VOLUME L/ha	COMMENTS
TAKKLE Herbicide + 2,4-D <sup>1,2</sup>	2.5 <sup>3</sup> - 3.125 + 0.60 - 0.90 <sup>4</sup>	Volunteer cereals, wild oats green foxtail, downy brome, Persian darnel and foxtail barley*  Wild buckwheat**, cow cockle, flixweed, kochia, lady's-thumb, lamb'squarters, wild mustard, redroot pigweed, smartweed, stinkweed, Russian thistle, volunteer canola***, bluebur, burdock (before the 4 leaf), cocklebur, common plantain, daisy fleabane, false flax, false ragweed, goat's beard, mustards (except dog and tansy), prickly lettuce, ragweeds (common & giant), Russian pigweed, shepherd's purse, stinging nettle, sweet clover, thyme-leaved spurge, wild radish, wild sunflower	50-100	Weeds should be less than 15 cm tall and actively growing for best results.  *Use 3.125 L/ha rate before initiation of seed head or lower leaves browning. Suppression only  **For 1-4 leaf stage, use 2.5 L rate.  ***Includes glyphosate-tolerant and non-glyphosate-tolerant varieties (1-4 leaf stage).  2-4 leaf stage unless otherwise noted.

ANNUAL WEED CONTROL TANK MIXTURES FOR SUMMERFALLOW AND MINIMUM TILLAGE SYSTEMS				
TANK MIX	RATE L/ha	WEEDS CONTROLLED	WATER VOLUME L/ha	COMMENTS
TAKKLE Herbicide + 2,4-D <sup>1,2</sup>	2.5 <sup>3</sup> - 3.125 + 1.2 – 1.5 <sup>5</sup>	Weed listed above plus volunteer canola, (4-6 leaf stage), annual sow thistle, blue lettuce, biennial wormwood, common chickweed, common purslane, curled dock (before 4 leaf), dog and tansy mustard, oak-leaved goosefoot, groundsel, gumweed, hairy galinsoga, hawkweed, heal-all, hedge bindweed, knotweed (before 4 leaf), leafy spurge, peppergrass, pineapple weed, prostrate pigweed, purslane, Russian knapweed, sheep sorrel, smartweed, tumble pigweed, velvetleaf, volunteer mustard, yellow rocket (before 4 leaf)	50 - 100	2-4 leaf stage unless otherwise noted
TAKKLE Herbicide + 2,4-D <sup>1,2</sup>	2.5 <sup>3</sup> - 3.125 + 1.2 – 1.5 <sup>5</sup>	Blue lettuce, biennial wormwood, gumweed, hedge bindweed, leafy spurge, Russian knapweed, yellow rocket (before 4 leaf), bull thistle, burdock buttercup, Canada thistle, field bindweed, field dandelion, hoary cress, mouse-eared chickweed, perennial sow thistle, tartary buckwheat, teasel, volunteer flax, volunteer sunflower	50 - 100	Top growth control when applied after the 4 leaf stage

<sup>1</sup>Use this tank mix prior to seeding or after seeding but before crop emergence in wheat, winter wheat, barley and rye.

<sup>2</sup>based on 470 g ai/L 2,4-D. Adjust rates accordingly for other 2,4-D formulations. Use only low volatile esters or amine formulations of 2,4-D.

<sup>3</sup> Use only the 2.5 L/ha rate of TAKKLE prior to or after seeding cereals but before crop emergence.

<sup>4</sup>2,4-D at 0.6 – 0.9 L/ha (280 – 420 g ai/ha).

<sup>5</sup>2,4-D at 1.2 – 1.5 L/ha (560 – 700 g ai/ha).

## MIXING INSTRUCTIONS

1. Fill the spray tank to approximately  $\frac{3}{4}$  of the desired volume with clean water.
2. Add the recommended amount of TAKKLE herbicide, then complete the filling process while maintaining agitation.
3. Remove the hose from the mix tank immediately after filling to avoid siphoning back into the carrier source.
4. During mixing and application, foaming of the spray solution may occur. To prevent or minimize foam, terminate by-pass and return lines at the tank bottom during mixing.

**NOTE:** Reduced results may occur if using water containing soil, such as water from unlined ditches or ponds.

## SPRAYER CLEANUP

CLEAN THE ENTIRE SPRAYER AFTER APPLICATION OF THIS PRODUCT.

Failure to clean the sprayer thoroughly may result in injury to desirable crops which are subsequently sprayed.

1. Add clean water to the tank and thoroughly rinse the entire sprayer system.
2. Fill the tank with water and ammonia. Add 1 litre of household ammonia per 100 litres of water.
3. Pump enough solution through the hoses, boom and nozzles to fill these parts completely.
4. Fill the tank, close and leave for 24 hours before draining and rinsing thoroughly with water.

Application or use of other agricultural chemicals with the equipment used for this product may result in injury to desirable vegetation.

## RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, TAKKLE Herbicide is a Group 4 and 9 herbicide. Any weed population may contain or develop plants naturally resistant to TAKKLE and other Group 4 and 9 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

### To delay herbicide resistance:

Where possible, rotate the use of TAKKLE Herbicide or other Group 4 and 9 herbicides with different herbicide groups that control the same weeds in a field.

Use tank mixtures with herbicides from a different group when such use is permitted.

Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.

Monitor treated weed populations for resistance development.

Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.

Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.

For further information or to report suspected resistance, contact company representatives at 1-87-SYNGENTA (1-877-964-3682) or at [www.syngenta.ca](http://www.syngenta.ca).

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